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NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
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introduction of free HIT display format
NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
status data
NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in
records back to 1992
NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
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=> S NESPER R?/AU

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=> S GRUTZMACHER H?/AU

L11 95 GRUTZMACHER H?/AU

=> S HABREACHT J?/AU

L12 0 HABREACHT J?/AU

=> S HABERECHT J?/AU

L13 13 HABERECHT J?/AU

=> D L13 1-13

L13 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:19348 CAPLUS Full-text

DN 150:214505

TI Hydrosilylation of ethynylborazines and their use for the formation of a highly functionalized silica gel

AU Haberecht, J.; Ruegger, H.; Nesper, R.; Grutzmacher, H.

CS ETH Honggerberg-HCI H131, ETH Zurich, Zurich, CH-8093, Switz.

SO Organosilicon Chemistry VI: From Molecules to Materials, [European Silicon Days], 2nd, Munich, Germany, Sept. 11-12, 2003 (2005), Meeting Date 2003, Volume 1, 142-147. Editor(s): Auner, Norbert; Weis, Johann. Publisher: Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany.

CODEN: 69KGTM; ISBN: 978-3-527-31214-6

DT Conference

LA English

OS CASREACT 150:214505

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:16645 CAPLUS Full-text

DN 148:361201

TI New approaches and characterization methods of functional silicon-based non-oxidic ceramics

AU Haberecht, J.; Krumeich, F.; Hametner, K.; Gunther, D.; Nesper, R.

CS ETH Zurich, Zurich, CH-8093, Switz.

SO Organosilicon Chemistry VI: From Molecules to Materials, [European Silicon Days], 2nd, Munich, Germany, Sept. 11-12, 2003 (2005), Meeting Date 2003, Volume 2, 981-986. Editor(s): Auner, Norbert; Weis, Johann. Publisher: Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany.

CODEN: 69KGTM; ISBN: 978-3-527-31214-6

DT Conference

LA English

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:461923 CAPLUS Full-text

DN 143:137485

TI Carbon nanostructures on high-temperature ceramics - a novel composite material and its functionalization
 AU Haberecht, Joerg; Krumeich, F.; Stalder, M.; Nesper, Reinhard
 CS Laboratory of Inorganic Chemistry, ETH Zuerich, Zurich, CH-8093, Switz.
 SO Catalysis Today (2005), 102-103, 40-44
 CODEN: CATTEA; ISSN: 0920-5861
 PB Elsevier B.V.
 DT Journal
 LA English

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:304935 CAPLUS Full-text
 DN 143:11736
 TI A Construction Kit for Si-B-C-N Ceramic Materials Based on Borazine Precursors
 AU Haberecht, Joerg; Nesper, Reinhard; Gruetzmacher, Hansjoerg
 CS Laboratory of Inorganic Chemistry, ETH Zuerich, Zurich, CH-8093, Switz.
 SO Chemistry of Materials (2005), 17(9), 2340-2347
 CODEN: CMATEX; ISSN: 0897-4756
 PB American Chemical Society
 DT Journal
 LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2004:675701 CAPLUS Full-text
 DN 141:178208
 TI Method for production of a B/N/C/Si ceramic from a borazine precursor for making heating
 IN Nesper, Reinhard; Haberecht, Joerg; Gruetzmacher, Hansjoerg
 PA Eidgenoessische Technische Hochschule Zuerich, Switz.
 SO PCT Int. Appl., 24 pp.
 CODEN: PIXXD2
 DT Patent
 LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069768	A1	20040819	WO 2004-CH52	20040202
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1590310	A1	20051102	EP 2004-707180	20040202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 20060293164	A1	20061228	US 2005-544211	20050802
PRAI CH 2003-149	A	20030203		
WO 2004-CH52	W	20040202		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:36188 CAPLUS Full-text
 DN 140:221686
 TI High-Yield Molecular Borazine Precursors for Si-B-N-C Ceramics
 AU Haberecht, Joerg; Krumeich, Frank; Gruetzmacher, Hansjoerg;
 Nesper, Reinhard
 CS Laboratory of Inorganic Chemistry, ETH Zurich, Zurich, CH-8093, Switz.
 SO Chemistry of Materials (2004), 16(3), 418-423
 CODEN: CMATEX; ISSN: 0897-4756
 PB American Chemical Society
 DT Journal
 LA English
 RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2003:415725 CAPLUS Full-text
 DN 140:42301
 TI Functionalized borazines as precursors for new silica gels
 AU Haberecht, Joerg; Krummland, Anja; Breher, Frank; Gebhardt,
 Bjoern; Rueegger, Heinz; Nesper, Reinhard; Gruetzmacher, Hansjoerg
 CS Department of Chemistry, ETH-Hoenggerberg, Zurich, CH-8093, Switz.
 SO Dalton Transactions (2003), (11), 2126-2132
 CODEN: DTARAF; ISSN: 1477-9226
 PB Royal Society of Chemistry
 DT Journal
 LA English
 OS CASREACT 140:42301
 RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:927350 CAPLUS Full-text
 DN 138:7468
 TI Synthesis of novel lamellar-structured silicon sub-nitride used as
 sub-nano-transistor
 IN Kniep, Ruediger; Haberecht, Joerg
 PA Max-Planck-Gesellschaft Zur Foerderung Der Wissenschaften E.V., Germany
 SO PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002096799	A2	20021205	WO 2002-EP5733	20020524
	WO 2002096799	A3	20071129		
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, EP				
	DE 10125629	A1	20021205	DE 2001-10125629	20010525
PRAI	DE 2001-10125629	A	20010525		

L13 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2002:13622 CAPLUS Full-text
 DN 136:192012
 TI Refinement of the crystal structure of iron dibromide, FeBr2
 AU Haberecht, J.; Borrmann, H.; Kniep, R.
 CS Chem. Phys. fester Stoffe, Max-Planck-Inst., Dresden, D-01187, Germany
 SO Zeitschrift fuer Kristallographie - New Crystal Structures (2001), 216(4),
 510

CODEN: ZKNSFT; ISSN: 1433-7266

PB R. Oldenbourg Verlag

DT Journal

LA English

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:349782 CAPLUS Full-text

DN 133:266917

TI Salen-silicon complexes - a new type of hexacoordinate silicon

AU Haberecht, Jorg; Mucha, Frank; Bohme, Uwe; Roewer, Gerhard

CS Institut fur Anorganische Chemie Technische Universitat Bergakademie
Freiberg, Freiberg, D-09596, Germany

SO Organosilicon Chemistry IV: From Molecules to Materials, [Lectures and
Poster Contributions presented at the Muechner Silicontage], 4th, Muechen,
Apr., 1998 (2000), Meeting Date 1998, 500-504. Editor(s): Auner, Norbert;
Weis, Johann. Publisher: Wiley-VCH Verlag GmbH, Weinheim, Germany.

CODEN: 68ZMAL

DT Conference

LA English

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:269275 CAPLUS Full-text

DN 132:347333

TI ³¹P solid state nuclear magnetic resonance investigations on substituted
ethylmercaptocyclotetraphosphazenes

AU Paasch, Silvia; Thomas, Berthold; Haberecht, Jorg; Bohme, Uwe;
Kruger, Kerstin

CS Department of Analytical Chemistry, Freiberg University of Mining and
Technology, Freiberg, D-09596, Germany

SO Phosphorus, Sulfur and Silicon and the Related Elements (1998), 141, 9-26
CODEN: PSSLEC; ISSN: 1042-6507

PB Gordon & Breach Science Publishers

DT Journal

LA English

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:76243 CAPLUS Full-text

DN 132:173686

TI Crystal structure of N,N'-ethylenebis(3,5-di-tert-
butylsalicylideneiminato)difluorosilane-dioxane (4/1),
4C32H46F2N2O2Si.C4H8O2

AU Haberecht, J.; Bohme, U.; Lang, H.; Roewer, G.; Rheinwald, G.

CS Max-Planck-Institut Chemische Physik Fester Stoffe, Dresden, D-01257,
Germany

SO Zeitschrift fuer Kristallographie - New Crystal Structures (2000), 215(1),
135-137

CODEN: ZKNSFT; ISSN: 1433-7266

PB R. Oldenbourg Verlag

DT Journal

LA English

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1999:81805 CAPLUS Full-text
DN 130:231388
TI Hexacoordinate silicon-azomethine complexes. Synthesis, characterization,
and properties
AU Mucha, Frank; Haberecht, Joerg; Boehme, Uwe; Roewer, Gerhard
CS Institut Anorganische Chemie, Technische Universitaet Bergakademie,
Freiberg, D-09596, Germany
SO Monatshefte fuer Chemie (1999), 130(1), 117-132
CODEN: MOCMB7; ISSN: 0026-9247
PB Springer-Verlag Wien
DT Journal
LA English
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> S US 2005-544211/AP
L14 1 US 2005-544211/AP
(US2005-544211/AP)

=> D L14

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:675701 CAPLUS Full-text
DN 141:178208
TI Method for production of a B/N/C/Si ceramic from a borazine precursor for making heating
IN Nesper, Reinhard; Haberecht, Joerg; Gruetzmacher, Hansjoerg
PA Eidgenoessische Technische Hochschule Zuerich, Switz.
SO PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2004069768	A1	20040819	WO 2004-CH52	20040202
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1590310	A1	20051102	EP 2004-707180	20040202
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 20060293164	A1	20061228	US 2005-544211	20050802 <--
PRAI	CH 2003-149	A	20030203		
	WO 2004-CH52	W	20040202		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
RE
(1) Anon; WO 0222625 A1 CAPLUS
(2) Anon; DE 10108069 A1 CAPLUS

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L15 1 "2002:220601"/AN

=> D L15 BIB,ABS

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:220601 CAPLUS Full-text

DN 136:247699

TI Preparation of (silylalkyl)boranes, (silylalkyl)borazines,
oligoborocarbosilazanes, polyborocarbosilazanes and high
temperature-stable silicon boron carbide nitride ceramics

IN Jansen, Martin; Jaeschke, Thomas

PA Max-Planck-Gesellschaft zur Foerderung der Wissenschaften E.V., Germany

SO PCT Int. Appl., 46 pp.

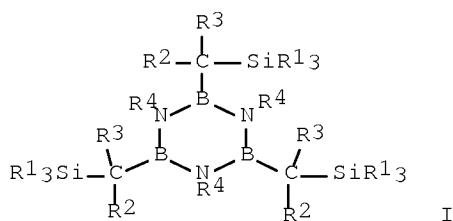
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2002022625	A1	20020321	WO 2001-EP10540	20010912
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
	DE 10045050	A1	20020321	DE 2000-10045050	20000912
	DE 10108069	A1	20020822	DE 2001-10108069	20010220
	AU 2001087731	A	20020326	AU 2001-87731	20010912
	CA 2421655	A1	20030307	CA 2001-2421655	20010912
	EP 1317463	A1	20030611	EP 2001-967334	20010912
	EP 1317463	B1	20050323		
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	JP 2004509127	T	20040325	JP 2002-526876	20010912
	AT 291580	T	20050415	AT 2001-967334	20010912
	ES 2236299	T3	20050716	ES 2001-967334	20010912
	US 20040039217	A1	20040226	US 2003-380553	20030312
	US 7148368	B2	20061212		
	US 20070063396	A1	20070322	US 2006-555934	20061102
	US 7342123	B2	20080311		
PRAI	DE 2000-10045050	A	20000912		
	DE 2001-10108069	A	20010220		
	US 2000-380553	A3	20000312		
	WO 2001-EP10540	W	20010912		
	US 2003-380553	A3	20030312		
OS	CASREACT 136:247699; MARPAT 136:247699				
GI					



AB (silylalkyl)boranes $R_3SiC(R_1)(R_2)BR_2$ [$R = H, \text{halo}, C1-20 \text{ hydrocarbyl}, NR'R'', OR'$, where $R', R'' = H, C1-20 \text{ hydrocarbyl}$; $R_1, R_2 = H, \text{halo}, C1-20 \text{ hydrocarbyl}, NR'R'', OR'$ (same R', R'')] are prepared by reaction of silanes $R_3SiC(R_1)(R_2)X$ (same $R-R_2$, $X = \text{halogen}$), preferably R_3SiCH_2Cl , with a metal M , preferably Mg , at $<50^\circ$ in an aprotic, organic solvent to give $R_3SiC(R_1)(R_2)MX_w$ ($w = 0$ when $M = \text{monovalent metal}$; $w = \text{whole number} \geq 1$ corresponding to the valence of $M - 1$, when M is a polyvalent metal), which then reacts at $<50^\circ$ with a borane YBR_2 (same R ; $Y = \text{halo}, NR'R'', OR'$, same R', R''). Also claimed are (silylalkyl)borazines I [$R_1 = H, \text{halo}, C1-20 \text{ hydrocarbyl}, NR'R'', OR'$; $R', R'' = H, C1-20 \text{ hydrocarbyl}$; $R_2, R_3 = H, \text{halo}, NR'R'', OR'$ (same R', R''); $R_4 = R_1, SnR^*3, SiR^*3, R^* = R_2, C1-20 \text{ hydrocarbyl}$] and their preparation from the corresponding $R_3SiC(R_1)(R_2)BR_2$ and amines NR_43 or ammonium salts HNR_43+A^- (same R_4 ; $A = \text{anion}$), as are oligoborocarbosilazanes and polyborocarbosilazanes and their preparation from $R_3SiC(R_1)(R_2)BR_2$ or borazines I, and also $Si-B$ carbide nitride ceramics and their preparation from these compds. and NH_3 . In an example, 7.0 g powdered Mg in 150 mL Et_2O is treated with 36.9 g Cl_3SiCH_2Cl in 200 mL Et_2O , then cooled to -78° and treated with 23.3 g $(EtO)_2BCl$ and filtered, whereupon the solvent is evaporated and the residue treated with 57.2 g BCl_3 at -78° and then with 0.5 g $AlCl_3$ at room temperature to give $Cl_3SiCH_2BCl_2$; reaction of this (silylalkyl)borane with $MeNH_2$ in hexane gave a polyborocarbosilazane.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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E2 THROUGH E2 ASSIGNED

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=> S E2

L16 1 "2002:220601"/AN

=> D L16 BIB,ABS

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:220601 CAPLUS Full-text

DN 136:247699

TI Preparation of (silylalkyl)boranes, (silylalkyl)borazines,
oligoborocarbosilazanes, polyborocarbosilazanes and high

temperature-stable silicon boron carbide nitride ceramics

IN Jansen, Martin; Jaeschke, Thomas

PA Max-Planck-Gesellschaft zur Foerderung der Wissenschaften E.V., Germany

SO PCT Int. Appl., 46 pp.

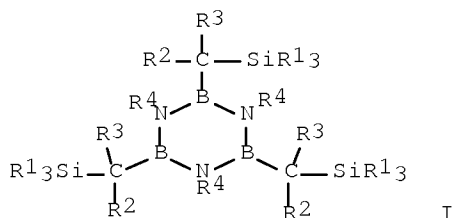
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002022625	A1	20020321	WO 2001-EP10540	20010912
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10045050	A1	20020321	DE 2000-10045050	20000912
	DE 10108069	A1	20020822	DE 2001-10108069	20010220
	AU 2001087731	A	20020326	AU 2001-87731	20010912
	CA 2421655	A1	20030307	CA 2001-2421655	20010912
	EP 1317463	A1	20030611	EP 2001-967334	20010912
	EP 1317463	B1	20050323		
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	JP 2004509127	T	20040325	JP 2002-526876	20010912
	AT 291580	T	20050415	AT 2001-967334	20010912
	ES 2236299	T3	20050716	ES 2001-967334	20010912
	US 20040039217	A1	20040226	US 2003-380553	20030312
	US 7148368	B2	20061212		
	US 20070063396	A1	20070322	US 2006-555934	20061102
	US 7342123	B2	20080311		
PRAI	DE 2000-10045050	A	20000912		
	DE 2001-10108069	A	20010220		
	US 2000-380553	A3	20000312		
	WO 2001-EP10540	W	20010912		
	US 2003-380553	A3	20030312		
OS	CASREACT 136:247699; MARPAT 136:247699				
GI					



AB (silylalkyl)boranes $R_3SiC(R_1)(R_2)BR_2$ [$R = H, \text{halo}, C1-20 \text{ hydrocarbyl}, NR'R'', OR'$, where $R', R'' = H, C1-20 \text{ hydrocarbyl}$; $R_1, R_2 = H, \text{halo}, C1-20 \text{ hydrocarbyl}, NR'R'', OR'$ (same R', R'')] are prepared by reaction of silanes $R_3SiC(R_1)(R_2)X$ (same $R-R_2$, $X = \text{halogen}$), preferably R_3SiCH_2Cl , with a metal M , preferably Mg , at $<50^\circ$ in an

aprotic, organic solvent to give $R_3SiC(R_1)(R_2)MX_w$ ($w = 0$ when $M =$ monovalent metal; $w =$ whole number ≥ 1 corresponding to the valence of $M - 1$, when M is a polyvalent metal), which then reacts at $<50^\circ$ with a borane YBR_2 (same R ; $Y =$ halo, $NR'R''$, OR' , same R' , R''). Also claimed are (silylalkyl)borazines I [$R_1 = H$, halo, C1-20 hydrocarbyl, $NR'R''$, OR' ; R' , $R'' = H$, C1-20 hydrocarbyl; R_2 , $R_3 = H$, halo, $NR'R''$, OR' (same R' , R''); $R_4 = R_1$, SnR^*3 , SiR^*3 , $R^* = R_2$, C1-20 hydrocarbyl] and their preparation from the corresponding $R_3SiC(R_1)(R_2)BR_2$ and amines NR_43 or ammonium salts HNR_43+A^- (same R_4 ; $A =$ anion), as are oligoborocarbosilazanes and polyborocarbosilazanes and their preparation from $R_3SiC(R_1)(R_2)BR_2$ or borazines I, and also Si B carbide nitride ceramics and their preparation from these compds. and NH_3 . In an example, 7.0 g powdered Mg in 150 mL Et_2O is treated with 36.9 g Cl_3SiCH_2Cl in 200 mL Et_2O , then cooled to -78° and treated with 23.3 g $(EtO)_2BCl$ and filtered, whereupon the solvent is evaporated and the residue treated with 57.2 g BCl_3 at -78° and then with 0.5 g $AlCl_3$ at room temperature to give $Cl_3SiCH_2BCl_2$; reaction of this (silylalkyl)borane with $MeNH_2$ in hexane gave a polyborocarbosilazane.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D HIS

(FILE 'HOME' ENTERED AT 16:59:48 ON 23 JUN 2009)

FILE 'CAPLUS' ENTERED AT 17:00:17 ON 23 JUN 2009

L1 1 S US2006-544211/AP

FILE 'STNGUIDE' ENTERED AT 17:01:31 ON 23 JUN 2009

FILE 'STNGUIDE' ENTERED AT 17:02:11 ON 23 JUN 2009

_L2 0 S US2006-0293164/AP

L3 0 S US20060293164/PN

L4 0 S US2006-0293164/PN

L5 0 S METHOD FOR PRODUCTION OF B/N/C/SI CERAMIC/TI

L6 0 S "METHOD FOR PRODUCTION OF B/N/C/SI CERAMIC"/TI

L7 0 S NESPIER R?/AU

L8 0 S NESPER R?/AU

FILE 'CAPLUS' ENTERED AT 17:05:11 ON 23 JUN 2009

L9 0 S "METHOD FOR PRODUCTION OF B/N/C/SI CERAMIC"/TI

L10 240 S NESPER R?/AU

L11 95 S GRUTZMACHER H?/AU

L12 0 S HABREACHT J?/AU

L13 13 S HABERECHT J?/AU

L14 1 S US 2005-544211/AP

SET SMA OFF

SEL RAN.CAPLUS(1) L14 1

SET SMA LOGIN

L15 1 S E1

SET SMA OFF

SEL RAN.CAPLUS(2) L14 1

SET SMA LOGIN

L16 1 S E2

=> SEL L14 RN

E3 THROUGH E11 ASSIGNED

=> FILE REGISTRY
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
66.70	71.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
-1.64	-1.64

FILE 'REGISTRY' ENTERED AT 17:12:57 ON 23 JUN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 22 JUN 2009 HIGHEST RN 1159446-15-7
DICTIONARY FILE UPDATES: 22 JUN 2009 HIGHEST RN 1159446-15-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> S E3-11

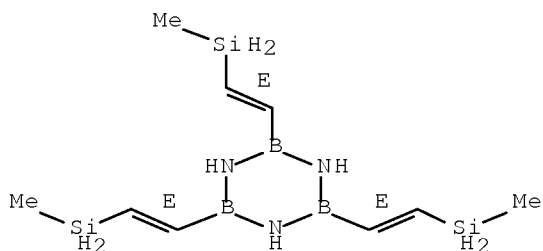
1 10025-78-2/BI
 (10025-78-2/RN)
1 12656-55-2/BI
 (12656-55-2/RN)
1 153498-18-1/BI
 (153498-18-1/RN)
1 635685-17-5/BI
 (635685-17-5/RN)
1 64477-28-7/BI
 (64477-28-7/RN)
1 664312-04-3/BI
 (664312-04-3/RN)
1 736156-97-1/BI
 (736156-97-1/RN)
1 736156-98-2/BI
 (736156-98-2/RN)
1 736156-99-3/BI
 (736156-99-3/RN)

L17 9 (10025-78-2/BI OR 12656-55-2/BI OR 153498-18-1/BI OR 635685-17-5
/BI OR 64477-28-7/BI OR 664312-04-3/BI OR 736156-97-1/BI OR 7361
56-98-2/BI OR 736156-99-3/BI)

=> D L17 1-9

L17 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 736156-99-3 REGISTRY
 ED Entered STN: 31 Aug 2004
 CN Borazine, 2,4,6-tris[(1E)-2-(methylsilyl)ethenyl]- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C9 H24 B3 N3 Si3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

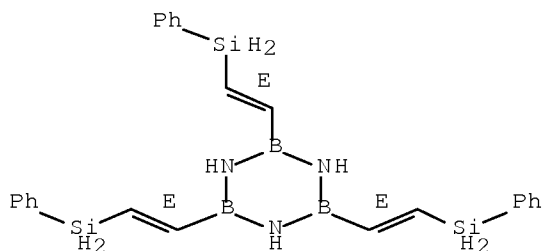


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 736156-98-2 REGISTRY
 ED Entered STN: 31 Aug 2004
 CN Borazine, 2,4,6-tris[(1E)-2-(phenylsilyl)ethenyl]- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C24 H30 B3 N3 Si3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.

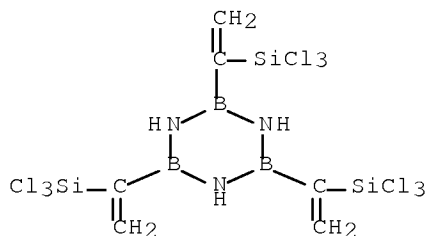


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 736156-97-1 REGISTRY

ED Entered STN: 31 Aug 2004
 CN Borazine, 2,4,6-tris[1-(trichlorosilyl)ethenyl]- (CA INDEX NAME)
 MF C6 H9 B3 Cl9 N3 Si3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

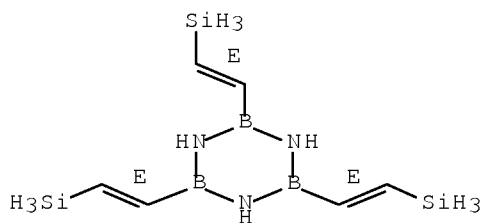


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 664312-04-3 REGISTRY
 ED Entered STN: 18 Mar 2004
 CN Borazine, 2,4,6-tris[(1E)-2-silylethenyl]- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C6 H18 B3 N3 Si3
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Double bond geometry as shown.



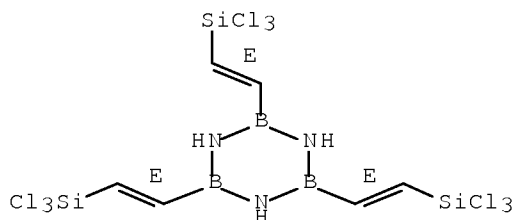
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 635685-17-5 REGISTRY
 ED Entered STN: 09 Jan 2004
 CN Borazine, 2,4,6-tris[(1E)-2-(trichlorosilyl)ethenyl]- (CA INDEX NAME)
 FS STEREOSEARCH
 MF C6 H9 B3 Cl9 N3 Si3
 CI COM
 SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

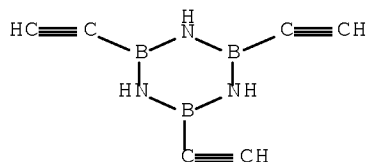
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
RN 153498-18-1 REGISTRY
ED Entered STN: 08 Mar 1994
CN Borazine, 2,4,6-triethynyl- (CA INDEX NAME)
DR 1013036-42-4
MF C6 H6 B3 N3
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
RN 64477-28-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN Silicon carbide nitride (CA INDEX NAME)
OTHER NAMES:
CN Silicon carbonitride
DR 207853-72-3
MF C . N . Si
CI TIS
LC STN Files: CA, CAPLUS, CASREACT, CBNB, CIN, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL, USPATOLD

Component	Ratio	Component
		Registry Number
N	x	17778-88-0
C	x	7440-44-0
Si	x	7440-21-3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1839 REFERENCES IN FILE CAPLUS (1907 TO DATE)

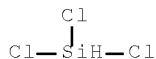
L17 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 12656--55-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Boron carbide nitride (CA INDEX NAME)
 OTHER NAMES:
 CN Boron carbide nitride (B0-1C0-1N0-1)
 CN Boron carbon nitride
 CN Boron carbonitride
 CN Carbon boron nitride
 DR 1093859-24-5, 37293-18-8, 157661-35-3, 220914-48-7, 249563-28-8,
 347356-48-3
 MF Unspecified
 CI COM, MAN
 LC STN Files: ANABSTR, CA, CAPLUS, CIN, IFICDB, IFIPAT, IFIUDB, TOXCENTER,
 USPAT2, USPATFULL, USPATOLD

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

715 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 717 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L17 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 10025-78-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Silane, trichloro- (CA INDEX NAME)
 OTHER NAMES:
 CN Silicochloroform
 CN Silicon chloride hydride (SiCl3H)
 CN Silicon chloride hydride (SiHCl3)
 CN Trichloromonosilane
 CN Trichlorosilane
 CN Trichlorosilane (HSiCl3)
 CN Trichlorosilane (SiHCl3)
 MF Cl3 H Si
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CBNB,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*,
 GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, PIRA,
 PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5216 REFERENCES IN FILE CA (1907 TO DATE)
 269 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5228 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> LOG HOLD

(FILE 'HOME' ENTERED AT 16:59:48 ON 23 JUN 2009)

FILE 'CAPLUS' ENTERED AT 17:00:17 ON 23 JUN 2009

L1 1 SEA FILE=CAPLUS SPE=ON PLU=ON US2006-544211/AP
 D L1

FILE 'STNGUIDE' ENTERED AT 17:01:31 ON 23 JUN 2009

FILE 'STNGUIDE' ENTERED AT 17:02:11 ON 23 JUN 2009

L2 0 SEA FILE=STNGUIDE SPE=ON PLU=ON US2006-0293164/AP
 L3 0 SEA FILE=STNGUIDE SPE=ON PLU=ON US20060293164/PN
 L4 0 SEA FILE=STNGUIDE SPE=ON PLU=ON US2006-0293164/PN
 L5 0 SEA FILE=STNGUIDE SPE=ON PLU=ON METHOD FOR PRODUCTION OF
 B/N/C/SI CERAMIC/TI
 L6 0 SEA FILE=STNGUIDE SPE=ON PLU=ON "METHOD FOR PRODUCTION OF
 B/N/C/SI CERAMIC"/TI
 L7 0 SEA FILE=STNGUIDE SPE=ON PLU=ON NESPIER R?/AU
 L8 0 SEA FILE=STNGUIDE SPE=ON PLU=ON NESPER R?/AU

FILE 'CAPLUS' ENTERED AT 17:05:11 ON 23 JUN 2009

L9 0 SEA FILE=CAPLUS SPE=ON PLU=ON "METHOD FOR PRODUCTION OF
 B/N/C/SI CERAMIC"/TI
 L10 240 SEA FILE=CAPLUS SPE=ON PLU=ON NESPER R?/AU
 L11 95 SEA FILE=CAPLUS SPE=ON PLU=ON GRUTZMACHER H?/AU
 L12 0 SEA FILE=CAPLUS SPE=ON PLU=ON HABREACHT J?/AU
 L13 13 SEA FILE=CAPLUS SPE=ON PLU=ON HABERECHT J?/AU
 D L13 1-13
 L14 1 SEA FILE=CAPLUS SPE=ON PLU=ON US 2005-544211/AP
 D L14
 D RE
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 SEL RAN.CAPLUS(1) L14 1
 SET SMA LOGIN
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 L16 1 SEA FILE=CAPLUS SPE=ON PLU=ON "2002:220601"/AN
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 SEL L14 RN

FILE 'REGISTRY' ENTERED AT 17:12:57 ON 23 JUN 2009

L17 9 SEA FILE=REGISTRY SPE=ON PLU=ON (10025-78-2/BI OR 12656-55-2/

BI OR 153498-18-1/BI OR 635685-17-5/BI OR 64477-28-7/BI OR
664312-04-3/BI OR 736156-97-1/BI OR 736156-98-2/BI OR 736156-99
-3/BI)
D L17 1-9

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.89	91.72
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 17:14:47 ON 23 JUN 2009